

## CLAIM AMENDMENTS

1-14 (Cancelled).

15 (Original). An apparatus comprising:  
a volume of programmable material;  
a conductor; and  
an electrode disposed between the volume of programmable material and the conductor, the electrode having a contact area at one end coupled to the volume of programmable material, wherein the contact area is less than the surface area at the one end.

16 (Original). The apparatus of claim 15, wherein the conductor is a first conductor, the apparatus further comprising a second conductor coupled to the programmable material.

17 (Original). The apparatus of claim 15, wherein the programmable material is a phase change material.

18 (Original). The apparatus of claim 17, wherein the phase change material is a chalcogenide material.

19 (New). The apparatus of claim 15, wherein said electrode is U-shaped.

20 (New). The apparatus of claim 19, wherein said U-shaped electrode includes two leg portions coupled by a base, only one of said leg portions forming said contact area.

21 (New). The apparatus of claim 20, wherein said base is electrically coupled to said conductor.

22 (New). The apparatus of claim 19, wherein said U-shaped electrode is filled with a dielectric material.

23 (New). The apparatus of claim 19, wherein said U-shaped electrode includes a base coupled to at least one leg portion having a free end, wherein the contact area is formed on the free end of said U-shaped electrode.

24 (New). The apparatus of claim 19, including a pair of leg portions coupled to said base, each leg portion including a free end, only one of said free ends forming said contact area.

25 (New). A memory comprising:  
a volume of programmable material; and  
an electrode in electrical contact with said volume, said electrode including a pair of spaced portions only one of which contacts said volume.

26 (New). The memory of claim 25, wherein said electrode is U-shaped.

27 (New). The memory of claim 26, wherein said U-shaped electrode includes two leg portions coupled by a base, only one of said leg portions forming said contact area.

28 (New). The memory of claim 27, wherein said base is electrically coupled to said conductor.

29 (New). The memory of claim 26, wherein said U-shaped electrode is filled with a dielectric material.

30 (New). The memory of claim 26, wherein said U-shaped electrode includes a base coupled to at least one leg portion having a free end, wherein the contact area is formed on the free end of said U-shaped electrode.

31 (New). The memory of claim 26, including a pair of leg portions coupled to said base, each leg portion including a free end, only one of said free ends forming said contact area.

32 (Original). The memory of claim 25, wherein the programmable material is a phase change material.

33 (Original). The memory of claim 32, wherein the phase change material is a chalcogenide material.

34 (Original). The memory of claim 25, wherein the conductor is a first conductor, the apparatus further comprising a second conductor coupled to the programmable material.